

Notice of Allowability	Application No.	Applicant(s)
	10/053,300	AGARWAL ET AL.
	Examiner	Art Unit
	Hoai v. Pham	2814
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED in this ap i) or other appropriate communication RIGHTS. This application is subject t	plication. If not included n will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $\frac{1/11/20061/11/2006}{1}$		
2. The allowed claim(s) is/are <u>1-7,9-28 and 58-77</u> .		
3. $igotimes$ The drawings filed on <u>17 January 2002</u> are accepted by the	he Examiner.	
4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDON! THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give the complete of the priority documents and the complete of the priority documents are under the complete of the priority documents are under the complete of the priority documents are under the priority document	re been received. re been received in Application No recuments have been received in this recument. recuments have been received in this recument. recuments have been received in this recuments. recuments have been received in this recuments. recuments have been received in this recuments have been rece	national stage application from the complying with the requirements 2'S AMENDMENT or NOTICE OF ation is deficient. -948) attached Office action of the back) of (d). must be submitted. Note the
 Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 1/11/2006 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	6. Interview Summary Paper No./Mail Da 708), 7. Examiner's Amend	te
		PRIMARY EXAMINER

Application/Control Number: 10/053,300 Page 2

Art Unit: 2814

DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-7, 9-28 and 58-77 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: the prior of record fails to disclose the combination of a transistor structure recited in the base claims including the combination of the structure comprising: an implant region having a rounded corner between the portion of the substrate and the trench wall and the implant region having the same dopant type as the substrate type whereby the threshold voltage in the implant region is approximately equal to or greater than the threshold voltage on the portion of the substrate and whereby the pull back distance defines a width of the implant region which is approximately uniform around the process stack (claims 1, 6, 9, 15, 17, 58, 64, and 72); a dopant in the implant region thereby changing an electrical characteristic of the implant region and making a threshold voltage in the comer region about equivalent to or greater than a threshold voltage in a central area of the substrate underneath the oxide layer, the threshold voltage of the central area of the substrate being about substantially uniform (claims 24, 28, and 75).
- 3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hoai v. Pham whose telephone number is 571-272-1715. The examiner can normally be reached on M-F.
- 4. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael M. Fahmy can be reached on 571-272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/053,300

Art Unit: 2814

5. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Page 3